What is Claimed is:

 S_{0} \downarrow_{1} . An optical printer head comprising:

2 a picture element array composed of picture elements

3 containing light-emitting devices arranged in directions of a

4 line and a string in two dimensions;

a horizontal scanning circuit to feed data signals to each

6 picture element string in said picture element array; and

a vertical scanning circuit to sequentially select and

8 activate each picture element line in said picture element array,

9 wherein said picture element array, said horizontal

10 scanning circuit and said vertical scanning circuit are formed

11 in a same insulating substrate.

- 1 2. The optical printer head according to Claim 1,
- 2 wherein said light-emitting device is composed of organic
- 3 electroluminescence devices.
- 1 3. The optical printer head according to Claim 1,
- 2 wherein said horizon all scanning circuit and said vertical
- 3 scanning circuit are composed of poly-crystal silicon thin-film
- 4 transistors.
- 1 4. The optical printer head according to Claim 1,
- 2 further comprising a means for setting amounts of light to be
- 3 emitted from said light-emitting device in picture elements
- 4 constituting said picture element lines by each picture element
- 5 line constituting said picture element array.

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- The optical printer head according to Claim 1, 1 5. wherein said vertical scanning circuit is so operated that, in 2 a state in which said picture element array is disposed facing 3 a surface of a photosensitive body in a manner that a direction 4 of said picture element line is parallel to a rotation axis of 5 said photosensitive body, activates said picture element line 6 containing each picture element while each picture element 7 contained in each picture element string in said picture element 8 array is passing sequentially on a same spot on a surface of said 9 photosensitive body, with rotation of said photosensitive body. 10
 - 6. The optical printer head according to Claim 4, wherein said vertical scanning circuit is so operated that, in a state in which said picture element array is disposed facing a surface of a photosensitive body in a manner that a direction of said picture element line is parallel to a rotation axis of said photosensitive body, activates said picture element line containing each picture element while each picture element contained in each picture element string in said picture element array is passing sequentially on a same spot on a surface of said photosensitive body, with rotation of said photosensitive body.
 - 7. The optical printer head according to Claim 5, wherein the number of picture elements in said each picture element string activated by said vertical scanning circuit is able to be changed.
 - 1 8. The optical printer head according to Claim 6, 2 wherein the number of picture elements in said each picture

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- 3 element string activated by said vertical scanning circuit is able
- 4 to be changed.
- The optical printer head according to Claim 5, 1 wherein said picture elements constituting said picture element 2 array are divided into a plurality of groups of picture elements 3 4 in directions of a same line and of a same string and wherein, while the number of picture elements constituting said group of 5 picture elements to be activated by said vertical scanning circuit 6 is being changed, activation of said picture elements is performed 7 for every group of said picture element of said same line. 8
- The optical printer head according to Claim 6, 1 10. wherein said picture elements constituting said picture element 2 array are divided into a plurality of groups of picture elements 3 in directions of a same line and of a same string and wherein, 4 while the number of picture elements constituting said group of 5 picture elements to be activated by said vertical scanning circuit 6 is being changed, activation of said picture elements is performed 7 for every group of said picture element of said same line. 8
 - 11. The optical printer head according to Claim 7, wherein said picture elements constituting said picture element array are divided into a plurality of groups of picture elements in directions of a same line and of a same string and wherein, while the number of picture elements constituting said group of picture elements to be activated by said vertical scanning circuit is being changed, activation of said picture elements is performed for every group of said picture element of said same line.

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The optical printer head according to Claim 8, 1 12. wherein said picture elements constituting said picture element 2 array are divided into a plurality of groups of picture elements 3 in directions of a same line and of a same string and wherein, 4 while the number of picture elements constituting said group of 5 picture elements to be activated by said vertical scanning circuit 6 is being changed, activation of said picture elements is performed 7 for every group of said picture element of said same line. 8

cub? The optical printer head according to Claim 5, **1**3. 1 further comprising a detecting sensor for detecting positional 2 deviation of insertion in a direction vertical to a direction of 3 travelling of an object to which a toner image is transferred from 4 said photoseksitive body and a shift register for shifting data 5 signals in said horizontal scanning circuit to correct the 6 detected positional deviation. 7

14. The optical printer head according to Claim 6, further comprising a detecting sensor for detecting positional deviation of insertion in a direction vertical to a direction of travelling of an object to which a toner image is transferred from said photosensitive body and a shift register for shifting data signals in said horizontal scanning circuit to correct the detected positional deviation.

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